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Claims 1-20 (Cancelled).

- 21. (Currently Amended) The metallization insulating structure of claim 32 20 further comprising a capping layer on the substrate, underlying the first layer.
- 22. (Currently Amended) The metallization insulating structure according to claim 32 20 wherein the fluorine containing insulating layer comprises a material selected from the group consisting of fluorinated silicon oxide, fluorinated amorphous carbon, fluorinated diamondlike carbon and fluorinated organic polymers.
- 23. (Currently Amended) The metallization insulating structure according to claim 32 20-wherein the substantially fluorine free insulating layer comprises undoped silicon glass.
- 24. (Currently Amended) The metallization insulating structure according to claim 21 wherein the capping layer comprises a material selected from the group consisting of silicon nitride, silicon carbide and hydrogenated silicon carbide, or combinations thereof.

Claims 25-26 (Cancelled)

27. (Previously presented) The metallization structure of claim 21, wherein the metal structure extends through the capping layer such that the height of the structure is greater than hi+hf.

Claim 28 (Canceled)

29. (Previously presented) The structure of claim 21 wherein the metal structure is in contact with the underlying wires through the capping layer.

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- (Currently Amended) The structure of claim 29 32, a middle portion of the via contacted by the first layer.
- 31. (Previously presented) The structure of claim 30, a lower portion of the via contacted by one of the first layer and a capping layer.
- 32. (Currently Amended) <u>A metallization insulating structure, comprising:</u>
 <u>a substantially planar substrate having wires therein;</u>

a first layer, the first layer a substantially fluorine free insulating layer formed on the substrate, having a height, hi;

a second layer, the second layer a fluorine containing insulating layer formed directly on the first layer, having a height hf, an interface between said first and second layer being substantially planar; and

a metal structure of at least height hi + hf formed in the first and second layer, the metal structure extending to the substrate, the metal structure comprising a line and a via, a bottom of the line and an upper portion of the via contacted by the second layer The structure of claim 20, the line having a height hi less than the overall height of the second layer hf.

- 33. (Previously presented) The structure of claim 32, the via having a height hv greater than the height of the first layer hi.
- 34. (Previously presented) The structure of claim 33, the metal structure having a height ht equivalent to height of the line hl plus the height of the via hv.
- 35. (Previously presented) The structure of claim 34, wherein the height of the first layer hi is substantially less than the height of the via hv.